#### PATENT COOPERATION TREATY

From the	ONAL SEARCHI	NG AUTHO	RITY				
To:					PCT		
HADASSA G.E. EHRL	HADASSA WATERMAN G.E. EHRLICH (1995) LTD.						
1 11 MENAC	HEM BEGIN ST AN, ISRAEL 52:	REET 521			WRI	TTEN OPINION OF THE	
KAMAT G	AN, ISRAEL 32.	721			INTERNATIO	NAL SEARCHING AUTHORITY	
						(PCT Rule 43bis.1)	
				w.	Date of mailing (day/month/year)	01 JUN 2009	
Applicant's	or agent's file ref	erence			FOR FURTHER A	ACTION See paragraph 2 below	
39833			- " <del>"</del> "	1 (*1) - 1-4-		Priority date (day/month/year)	
Internation	al application No.		{		(day/month/year)	Filotity date (adjimonally ed.)	
PCT/IL07/	00918	- (TBC)	19 July 20	007 (19.07.200)	7)		
	al Patent Classific				On and n		
IPC: A	<b>61K 51/00</b> ( 2006 24/1.11;604/403	.01); <b>A61N</b> 5	5/ <b>00</b> ( 2006.0				
Applicant	,					,	
1 '	M DYNAMICS						
		1:	ating to the	following item	S.		
1. This o	pinion contains in			Tonowing trem		:	
	Box No. I	Basis of the	e opinion				
	Box No. II	Priority				the description of the second	
	Box No. III	Non-establ	ishment of	opinion with re	gard to novelty, inver	ntive step and industrial applicability	
	Box No. IV		ity of inven				
	Box No. V	Reasoned applicabili	statement u ty; citations	nder Rule 43 <i>bis</i> and explanatio	s.1(a)(i) with regard to ons supporting such st	o novelty, inventive step or industrial atement	
	Box No. VI	Certain do	cuments cit	ed			
1 1	Box No. VII	Certain de	fects in the	international ap	pplication		
	Box No. VIII				onal application		
2 FUR	THER ACTIO	N				the section of the	
If a c	lemand for international Prelimina	ational preli	ing Author.	and the choser	nde, this opinion will except that this does a IPEA has notified to will not be so consider	be considered to be a written opinion of the s not apply where the applicant chooses an the International Bureau under Rule 66.1 bis(b) dered.	
IPEA of Fo	a written reply to orm PCT/ISA/220	ogether, who or before the	ere appropri e expiration	red to be a wr late, with amen of 22 months	itten opinion of the I dments, before the e from the priority date	PEA, the applicant is invited to submit to the expiration of 3 months from the date of mailing whichever expires later.	
For f	urther options, see	Form PCT	TSA/220.				
		motos to Es-	m PCT/ISA	V220.			
3, For i	urther details, see	notes to rot	m i C 1/13/	J			
Name an	d mailing address	of the ISA/	US	Date of comp	letion of this opinion	Authorized officer of Hurley	
Name an	Mail Stop PCT, Att	n: ISA/US		01 Sentember	r 2008 (01.09.2008)	MARIA B. MARVICH	
-	Commissioner for I P.O. Box 1450			Of September		Telephone No. (703) 308-0196	
	Alexandria, Virgini	a 22313-1450 201	)	ļ	<del></del>	Terephone No. (703) 300-0170	
Form PCT	No. (571) 273-32 /ISA/237 (cover s	heet) (April	2007)	<u> </u>			

International application No.

PCT/IL07/00918

Box No	, I Basis of this opinion
1. With r	egard to the language, this opinion has been established on the basis of:
$\boxtimes$	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.	This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this
3. With establi	Authority under Rule 91 (Rule 43bis.1(a)) regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been ished on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
i	furnished subsequently to this Authority for the purposes of search.
4.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Addit	tional comments:

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Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The guesti	ons whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be y applicable have not been examined in respect of:
the	entire international application
<del></del>	ms Nos. <u>290-295,359,362,363,367,371,372,380-382,384,449-540</u> and <u>578-582</u>
because:	
	said international application, or the said claim Nos. 428-448 relate to the following subject matter which does not
req	uire an international search (specify):
bec of a	ause the claimed recitation of a use without setting forth any steps involved in the process, results in an improper definition process, i.e., results in a claim which is nt a proper process claim under 35 USC 101.
the the	description, claims or drawings (indicate particular elements below) or said claims Nos. 290-5,359,362,363,367,371,372,380-382,384,449-540 and 578- are so unclear that no meaningful opinion could be formed
<u>29.</u> (sp	5,359,362,363,367,371,372,380-382,384,449-540 and 378- are so uncrear that no meaning the specific process of the second
A	nultiply dependent claim cannot depend from another multiply dependent claim
the for	e claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be remed (specify):
	o international search report has been established for said claims Nos.
a	meaningful opinion could not be formed without the sequence listing; the applicant did not, within the rescribed time limit:
Ī	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority
Γ	in a form and manner acceptable to it.  furnish a sequence listing in electronic form complying with the standard provided for in Annex C of
	the Administrative Instructions, and such listing was not available to the international Sources Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
r. r t	meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
tl v	ne tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
s	ee Supplemental Box for further details.

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Box	x No. IV Lack of unity of invention
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:  paid additional fees
	paid additional fees under protest and, where applicable, the protest fee
	paid additional fees under protest but the applicable protest fee was not paid
	not paid additional fees
2.	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
	complied with
	not complied with for the following reasons:
	See the lack of unity section of the International Search Report(Form PCT/ISA/210)
4	Consequently, this opinion has been established in respect of the following parts of the international application:
	all parts.
	the parts relating to claims Nos. <u>1-289,296-358,360,364-366,368-370,373-379,383,385-448,541-577 and 583-588</u>

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Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Statement     Novelty (N)	Claims Please See Continuation Sheet  Claims Please See Continuation Sheet	YES			
Inventive step (IS)	Claims Please See Continuation Sheet  Claims Please See Continuation Sheet	YES			
Industrial applicability (IA)	Claims Please See Continuation Sheet  Claims Please See Continuation Sheet	YES			

#### 2. Citations and explanations:

Claims 252 and 253 lack novelty under PCT Article 33(2) as being anticipated by Jackson et al (US 20040086437; see entire document).

Jackson et al teach methods of packaging and packaged radiopharmaceuticals such as <sup>13</sup>N ammonia or <sup>15</sup>O water (see e.g. abstract and ¶ 0004 and 0025).

Claims 254-261, 267, 385-388 and 566 lack novelty under PCT Article 33(2) as being anticipated by Liu et al (US 20070166227). Liu et al teach for example that Tc99m compounds are between 0.05-5 mCi (see e.g. ¶ 233). Liu et al also teach use of dual radiolabels that are different from each other (see e.g. ¶ 0139).

Claims 541, 552 and 583-588 lack novelty under PCT Article 33(2) as being anticipated by Belardinelli et al (US 20050020915; see entire document).

Bellardinelli et al teach compositions and methods of administration of a first and second radiopharmaceutical wherein stress is applied prior to the second and then radioimaging (see e.g. ¶ 0242).

Claims 283-286 and 289 lack an inventive step under PCT Article 33(3) as being obvious over Liu et al (20070166227) in view of Ruosso et al (20050205792).

Liu et al in view of Ruosso et al teach compositions and methods of imaging myocardial reperfusions with dual radiopharmaceuticals (see Liu et al ¶ 0139, 0233 and Ruosso et al figure 7 and ¶ 0086).

Claims 1-251, 262-266, 268-272, 275, 287, 288, 296-358, 360, 361, 364-366, 368-370, 373-379, 383, 389-427, 542-551, 553-565, 567-577 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the specific components of doses and combinations as set forth in the claims.

Claims 1-276, 283-289, 296-358, 360, 361, 364, -366, 368-370, 373-379, 383, 385-427, 541-577, 583-588 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.

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Supplemental Box
In case the space in any of the preceding boxes is not sufficient.
V.I. Reasoned Statements: 251, 262, 266, 268, 272, 275, 283, 288, 296, 358, 360, 361, 364-366,
The opinion as to Novelty was positive (Yes) with respect to claims 1-231, 202-200, 200-272, 273, and 203, and
368-370, 373-379, 383, 389-427, 542-565, 567-577 The opinion as to Novelty was negative (No) with respect to claims 252-261, 267, 273, 274, 276, 385-388, 541, 552, 566, 583, 584, 586,
The opinion as to Novelty was negative (No) with respect to claims 252-201, 201, 201, 201, 201, 201, 201, 201,
587 The opinion as to Inventive Step was positive (Yes)with respect to claims 1-251, 262-266, 268-272, 275, 287, 288, 296-358, 360, 361, The opinion as to Inventive Step was positive (Yes)with respect to claims 1-251, 262-266, 268-272, 275, 287, 288, 296-358, 360, 361, 267, 267, 267, 267, 267, 267, 267, 267
364-366, 368-370, 373-379, 383, 389-427, 542-565, 567-577  The opinion as to Inventive Step was negative(NO) with respect to claims 252-261, 267, 273, 274, 276, 283-286, 289, 385-388, 541, The opinion as to Inventive Step was negative(NO) with respect to claims 252-261, 267, 273, 274, 276, 283-286, 289, 385-388, 541,
The opinion as to Inventive Step was negative(NO) with respect to claims 252 267, 267, 267,
552, 566, 583, 584, 586, 587 The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-227, 283-289, 296-358, 360, 361, 364-366, 368-
The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

Form PCT/ISA/237 (Supplemental Box) (April 2007)